

Figure 1

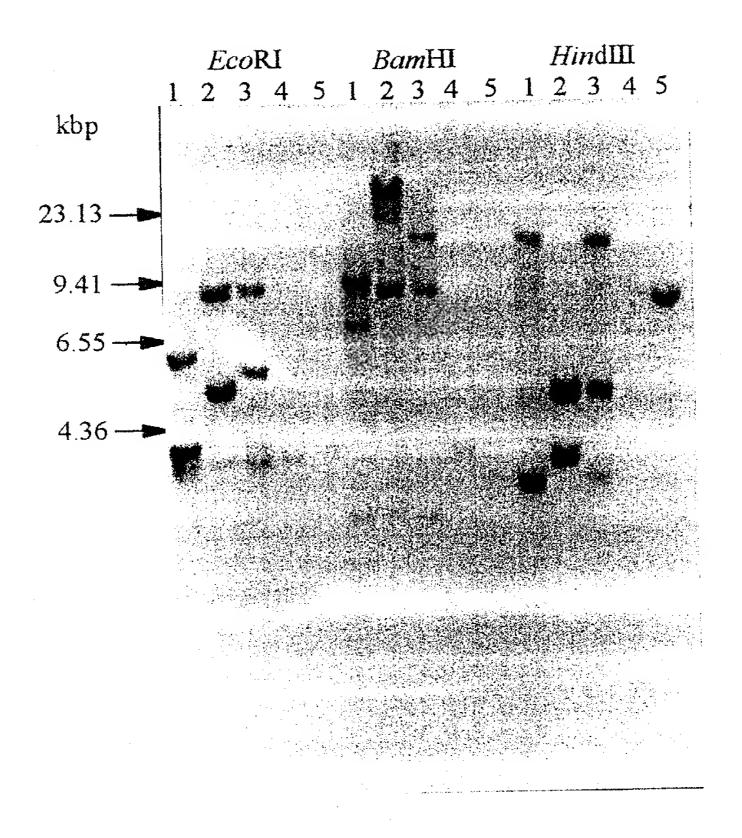


Figure 2

1 CAGCATTCCA AGAGGAAAAA AAACATGATC AAGAAGTAAT TACTACAAAA 51 GAGGAAGCTG TAGTAGTAAC TGCACCACCA CCATCAGAAA CAGCAGAGCC 101 AGCTGCAGCT GTTGTTGCCG AGGAAGAGC AACAAAGGAG CAAGAAGAC 151 CGCCAGCAGT ATCGGCCGAG GAACCTGTGG CCCCAGCTGA AGTAGAGACA 201 AAGGTGGAAG TTACAGAAGA ACCACCAAAA GTTGAGGAGA AACCAGCAGA 251 AGTAGAGGAG GCTCCAAAGG AAACAGTAGA AACAGAACCA GCTGTTGAGA 301 AGACCATCAA GGAGGAAACT GTAGAGGACT CTGTCGTGGC ACCTGCTCCC 351 GAACCGGAAG CCGAAGTCCC AAAAGAGAAG GTAATTGCTA CTACTGAAAC 401 TACTGAGGAA GAAGAAAAAG TGGCAGTTGA AGAAGTTGAA GTGAAAGTTG 451 AAACAGAGGA GGGAGAAGTT ACTGAGGAGA AGACTGAGTA AAATAAGTTG 501 TACAACTATT TTATGCACGC CTTATTTTCT CAATTGGAAG TTTATAATGT 551 AGTGGGCTTT TGGTAATATT TGGGGGTTTA ATAAGTGGTT TAAGTGGGTT 601 AAGGCTTTTT TGGAATTTAG ATATTTGGGT AAAGGCCTAC TTGAACAAAA 651 CATAGAAATT TGGCACACAT GGGTAAAAGT CAAACTTTGT TGAGGATGTT 701 TTCTTGTTGG TTAAATGTGT GTGCCAAGTA GTAGAATGTG GTGGTTGTAA 751 TGTAAGTTCT CAAGTAGGGT TTATGAGTCC TAGTATTATG CTTGATTGTA 801 TGTTGATATG AAAATGGGGG TATGTTGGCT TTGAATAAAA GTTTTTAATT

Figure 3

- 1 AFQEEKKHDQ EVITTKEEAV VVTAPPPSET AEPAAAVVAE EETTKEQEEP
- 51 PAVSAEEPVA PAEVETKVEV TEEPPKVEEK PAEVEEAPKE TVETEPAVEK
- 101 TIKEETVEDS VVAPAPEPEA EVPKEKVIAT TETTEEEEKV AVEEVEVKVE
- 151 TEEGEVTEEK TE

Figure 4

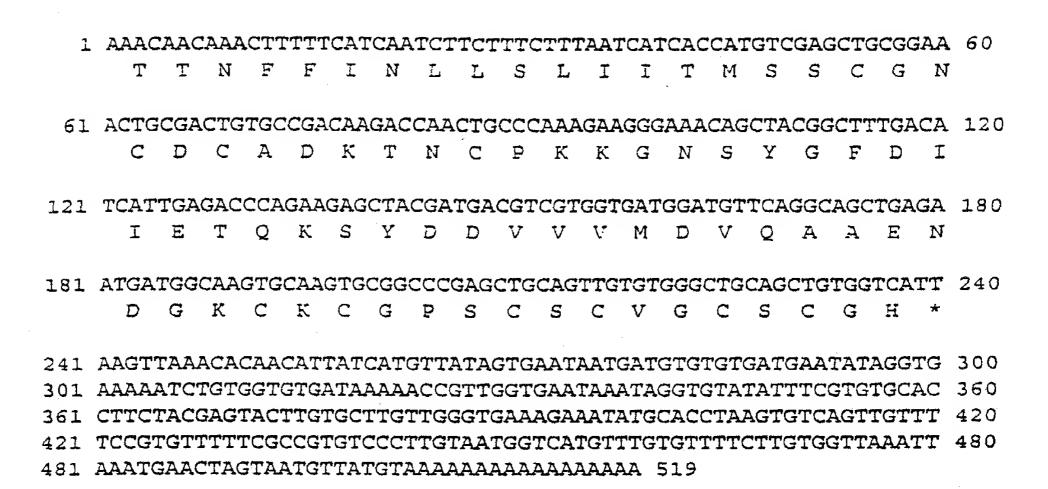


Figure 5

| RRS PVPPTRRRRNETTRRSSDRQ 61 AACTTCGAGCCACTGTGGGTGAAGACGGCGGGCGAACGATGGGACCACCCTTGGTCGATG LRRATVGEDGGCAGGTCTGAGGTCGAAGCCCACCCTTGGTCGATG LRRATVGEDGCAGGTCTGAAGCCCACCCTTGGTCGATG 121 AAGGCAAGCTCCGTACCTTCCGGACAGGTCTGAAGCCCGAACCAATTTGATTTCCGA GKLRTFRT GLKLRTN FDFPL 181 TCCATCGTGTCTTTGTATCACCTTTCCTCCGGTGCGTACAGACCAACTTTGATTTCCGA HRVFVSPFLRCCVQTASSCACGATCATCCCGGTGCGTACAGACAGCATCGGAAGTCATCT 241 CCGCTCTCTGGGCCGTCGACGATATTCCCGCCACCACTAATAGAGGCGATCAAGTACGAAA ALCAVDDLFPATTNRAGGTTTGAGTATGGATTATGTGAAATGTTGAACATGCAAA ALCAVDDLFPATTNRAGGTTTGAGTATGGATTATGTGAAATGTTGAACATGCAAA 301 TCGATCCATCAAGATCAAGGTCTCTATTGAGTATGGATTTATGTGAAAATGTTGAACATGCAACACCACACTAATAGAGACGAACAACTAGAACAACTCCAAGATCAAGAACTTCAAGAAAGA | | | | | | | | | | | | | | | | | | | | | | |
|---|------------------|-------|---------------|--------------------|----------------------|---------------|--------------|-------------------------------|-------------|--------------|--------|--------------------|--------------|-----------|-----------|----------------|-------------|--------|---------------------------|--------------|--------------------------------|-------|
| 61 AACTTCGAGCCACTGTGGTGAAGACGGCGGCGAACGATGGGACCCACCC | | l GGA | GGA | GAT | CAC | CAG | TTC | CAC | CAA | CAC | GTC | GTC | GTA | ATG | AGA | CAC | :GGC | GAT | 'CGG | ATA | GAC | 60 |
| L R A T V G E D G G E R W D P P L V D E 121 AAGGCAAGCTCCGTACCTTCCGGACAGGTCTGAAGCTCCGAACCAACTTTGATTTTCCGA 1 | | R | R | S | p | V | ō, | P | T | R | R | R | N | E | - | R | R | . s | D | R | Ç |) |
| L R A T V G E D G G E R W D P P L V D E 121 AAGGCAAGCTCCGTACCTTCCGGACAGGTCTGAAGCTCCGAACCAACTTTGATTTTCCGA 1 | | | | | | | | | | | | | | | | | | | | | | |
| L R A T V G E D G G E R W D P P L V D E 121 AAGGCAAGCTCCGTACCTTCCGGACAGGTCTGAAGCTCCGAACCAACTTTGATTTTCCGA 1 | 61 | LÄAC | TTC | GAG | CCA | CTG | TGG | GTG | AAG | ACG | GCG | GCG. | AAC | GAT | GGG | ACC | CAC | CCT | TGG | TCG. | ATO | ; 120 |
| 121 AAGGCAAGCTCCGTACCTTCCGGACAGGTCTGAAGCTCCGAACCAATTTTGATTTCCGA 1 G K L R T F R T G L K L R T N F D F P I 181 TCCATCGTGTCTTTGTATCACCTTTCCTCCGGTGCGTACAGACAG | 7. | | | _ | | | | | | | | | | | · _ | | | | | D | | |
| G K L R T F R T G L K L R T N F D F P I 181 TCCATCGTGTCTTTGTATCACCTTTCCTCCGGTGCGTACAGCAGCATCGGAAGTCATCT 2: H R V F V S P F L R C V Q T A S E V I S 241 CCGCTCTCTGCGCCGTCGACGATATTCCCGCCACCACTAATAGAGGCGATCAAGTACAAA 3: A L C A V D D I P A T T N P G D Q V Q I 301 TCGATCCATCCAAGATCAAGGTCTCTATTGAGTATAGGAGTATATGTGAAATGTTGAACATGC 3: D P S K I K V S I E Y G L C E M L N M Q 361 AAGCCATAAGACTTGGTATGGATTCAGCAATGGGAATTGGGGTTCGATAAATCACACC 4: A I R L G M D F S N G N W G F D K S H L 421 TTGAATCAACATTCCCAGTTGGGACGGTGGATCATAGTGTGAAACCACCTCTATAAAGAGA 4: E S T F P V G T V D H S V E P L Y K E M 481 TGCCAAAATGGGAAGAGACAGTCAATGGCGCAAGGGCCAGATATGAAGAGGGTTATTCAGG 5: F K W E E T V N G A R A R Y E E V I Q A 541 CCCTAGCAGATAAATACCCCACGGAGAACTTGTTGTTTTACACATGGGGAAGGAGTTGTTGGCCT 6: U A D K Y P T E N L L L V T H G E G V G 661 GCGTTGCAGTTTCTGCCTTCATGAAGGAACTTGTTGTTACAGAAGAGCCGATTATTGTGCCT 6: V A V S A F M K D V T V Y E A D Y C A Y 661 ATACACACGCAAGAGAACTCCATTGTCTTTGGGCAAAAACCAGTCATTTACTGCTGAAAACT 7: T H A R R S I V L G K N Q S F T A E N F 721 TTGAAGTATTACCAAAACAAGGCCAAACTGGTGTAGAGAACCAGTCATTTACTGCTTGAAAACT 7: T TTGAAGTATTACCAAAACAAGGCCAAACTGGTGTCAGTTACAGCAGCACTTTTT 8:4 661 ATACACACGCAAGAAGATCCATTGTCTTGGGCAAAAACCAGTCATTTACTGCTTGAACAGCATTGAT 7:6 E V L P R Q G Q T G V S Y V L E Q H * 781 GGAACTGTATGACCTAATTGTGCTACATTTTATAATTAAT | | | | • • | - | • | _ | - | ~ | Ğ | • | *** | | ,, | _ | - | _ | | · | | | |
| G K L R T F R T G L K L R T N F D F P I 181 TCCATCGTGTCTTTGTATCACCTTTCCTCCGGTGCGTACAGCAGCATCGGAAGTCATCT 2: H R V F V S P F L R C V Q T A S E V I S 241 CCGCTCTCTGCGCCGTCGACGATATTCCCGCCACCACTAATAGAGGCGATCAAGTACAAA 3: A L C A V D D I P A T T N P G D Q V Q I 301 TCGATCCATCCAAGATCAAGGTCTCTATTGAGTATAGGAGTATATGTGAAATGTTGAACATGC 3: D P S K I K V S I E Y G L C E M L N M Q 361 AAGCCATAAGACTTGGTATGGATTCAGCAATGGGAATTGGGGTTCGATAAATCACACC 4: A I R L G M D F S N G N W G F D K S H L 421 TTGAATCAACATTCCCAGTTGGGACGGTGGATCATAGTGTGAAACCACCTCTATAAAGAGA 4: E S T F P V G T V D H S V E P L Y K E M 481 TGCCAAAATGGGAAGAGACAGTCAATGGCGCAAGGGCCAGATATGAAGAGGGTTATTCAGG 5: F K W E E T V N G A R A R Y E E V I Q A 541 CCCTAGCAGATAAATACCCCACGGAGAACTTGTTGTTTTACACATGGGGAAGGAGTTGTTGGCCT 6: U A D K Y P T E N L L L V T H G E G V G 661 GCGTTGCAGTTTCTGCCTTCATGAAGGAACTTGTTGTTACAGAAGAGCCGATTATTGTGCCT 6: V A V S A F M K D V T V Y E A D Y C A Y 661 ATACACACGCAAGAGAACTCCATTGTCTTTGGGCAAAAACCAGTCATTTACTGCTGAAAACT 7: T H A R R S I V L G K N Q S F T A E N F 721 TTGAAGTATTACCAAAACAAGGCCAAACTGGTGTAGAGAACCAGTCATTTACTGCTTGAAAACT 7: T TTGAAGTATTACCAAAACAAGGCCAAACTGGTGTCAGTTACAGCAGCACTTTTT 8:4 661 ATACACACGCAAGAAGATCCATTGTCTTGGGCAAAAACCAGTCATTTACTGCTTGAACAGCATTGAT 7:6 E V L P R Q G Q T G V S Y V L E Q H * 781 GGAACTGTATGACCTAATTGTGCTACATTTTATAATTAAT | 121 | አአር | CC A | מכריי מ | ייריריני ייריריני | מינים | برين | ייין אייניין. ייין אייניין | CCA | CAG | כיחיכי | יים איז דיכיא ז | <i>א</i> כרי | marca. | CZ A | CCA | <u>አ</u> ጥጥ | באינה | יייוייני ב | ים החיבו | CGA | . 180 |
| 181 TCCATCGTGTCTTTGTATCACCTTTCCTCCGGTGCGTACAGACAG | 1, 24 1 | | | | | ψ ÆTE | | | | | | | | | | | | _ | | | _ | , |
| HRVFVSPFLRCVQTASSEVIS 241 CCGCTCTCTGCGCCGTCGACGATATTCCCGCCACCACTAATAGAGGCGATCAAGTACAAA ALCAVDDIPATTNACACACCCCACGGCGACCACTAATAGAGGCGATCAAGTACAAA 301 TCGATCCATCCAAGATCAAGGTCTCTATTGAGTATGGATTATGTGAAATGTTGAACATGC DPSKIKVSIEYGLCEMLNNMQ 361 AAGCCATAAGACTTGGTATGGATTTCAGCAATGGGAATTGGGGTTTCGATAAATCACACC AIRLGMDFSNGGATGGATTTCAGCAATGGGAATTGGGGTTTCGATAAATCACACC AIRLGMDFSNGGACGGTGGATCATAGTGTGGAACCACTCTATAAAGAGA ESTFPVGTVDHSVEET 421 TTGAATCAACATTCCCAGTTGGGACGGTGGATCATAGTGTGGAACCACTCTATAAAGAGA ESTFPVGTVDHSVEET 481 TGCCAAAATGGGAAGAGACAGTCAATGGCGCAAGGGCCAGATATGAAGAGGGTTATTCAGG 48 PKWEETVNNGAARGAGACACTCTTTTTGCTTGTTACACATGGGGAAGGAGTTG 601 GCGTTGCAGATAAATACCCCACGGAGAACTTGTTGCTTGTTACACATGGGGAAGGAGTTG 601 GCGTTGCAGTTTCTGCCTTCATGAAGGATCTTACAGTGTACGAAGCCGATTATTGTGCCT 601 GCGTTGCAGTTTCTGCCTTCATGAAGGATGTTACAGTGTACGAAGCCGATTATTGTGCCT 601 AACACCACGCAAGAACAAGAACAAGGAACAATTTCCACACGCTAGAAACCT THARRS IVLGKNQSTTACAGTTACAGTCATTTACTGCTGAAAACCT 72 THARRS IVLGKNQSTTACAGAACAAGCCAAACTGGTGTCAGTTACGTCCTTGAACAACCATTGAT 78: 76:1 GGAACTGTATGACCAAACAAGGCCAAACTGGTGTCAGTTACGGCCTCCTAAAACCACCTTTTT 84: 86:1 GGAACTGTATGACCTAATTGTGGCAGCCGATGATTACAGAAACAATTTCCACACCCTTTTT 84: 86:1 GGAACTGTATGACTAATTGTGGCAGCCGATGATTACAGAAACAATTTCCACACCCTTTTT 84: 86:1 GGAACTGTATGACTAATTGTGGCAGCCGATGATTACAGAAACAATTTCCACACCCTTTTT 84: 86:1 GCATTGGATTACAAAACAAGGCCAAACTGTTTTATAATTAAT | | G | IX. | نبد | Α. | 7 | £ | K | 1. | G | بد | V | 1-1 | ~ | * | 74 | - | ט | • | <i>-</i> | -44 | |
| HRVFVSPFLRCVQTASSEVIS 241 CCGCTCTCTGCGCCGTCGACGATATTCCCGCCACCACTAATAGAGGCGATCAAGTACAAA ALCAVDDIPATTNACACACCCCACGGCGACCACTAATAGAGGCGATCAAGTACAAA 301 TCGATCCATCCAAGATCAAGGTCTCTATTGAGTATGGATTATGTGAAATGTTGAACATGC DPSKIKVSIEYGLCEMLNNMQ 361 AAGCCATAAGACTTGGTATGGATTTCAGCAATGGGAATTGGGGTTTCGATAAATCACACC AIRLGMDFSNGGATGGATTTCAGCAATGGGAATTGGGGTTTCGATAAATCACACC AIRLGMDFSNGGACGGTGGATCATAGTGTGGAACCACTCTATAAAGAGA ESTFPVGTVDHSVEET 421 TTGAATCAACATTCCCAGTTGGGACGGTGGATCATAGTGTGGAACCACTCTATAAAGAGA ESTFPVGTVDHSVEET 481 TGCCAAAATGGGAAGAGACAGTCAATGGCGCAAGGGCCAGATATGAAGAGGGTTATTCAGG 48 PKWEETVNNGAARGAGACACTCTTTTTGCTTGTTACACATGGGGAAGGAGTTG 601 GCGTTGCAGATAAATACCCCACGGAGAACTTGTTGCTTGTTACACATGGGGAAGGAGTTG 601 GCGTTGCAGTTTCTGCCTTCATGAAGGATCTTACAGTGTACGAAGCCGATTATTGTGCCT 601 GCGTTGCAGTTTCTGCCTTCATGAAGGATGTTACAGTGTACGAAGCCGATTATTGTGCCT 601 AACACCACGCAAGAACAAGAACAAGGAACAATTTCCACACGCTAGAAACCT THARRS IVLGKNQSTTACAGTTACAGTCATTTACTGCTGAAAACCT 72 THARRS IVLGKNQSTTACAGAACAAGCCAAACTGGTGTCAGTTACGTCCTTGAACAACCATTGAT 78: 76:1 GGAACTGTATGACCAAACAAGGCCAAACTGGTGTCAGTTACGGCCTCCTAAAACCACCTTTTT 84: 86:1 GGAACTGTATGACCTAATTGTGGCAGCCGATGATTACAGAAACAATTTCCACACCCTTTTT 84: 86:1 GGAACTGTATGACTAATTGTGGCAGCCGATGATTACAGAAACAATTTCCACACCCTTTTT 84: 86:1 GGAACTGTATGACTAATTGTGGCAGCCGATGATTACAGAAACAATTTCCACACCCTTTTT 84: 86:1 GCATTGGATTACAAAACAAGGCCAAACTGTTTTATAATTAAT | 101 | #rcr | ን ጠጣጣ | مادادات مادادات | مدادمادا | باشانة | ተነጻ ጥረ | ~ * ~ / | املی میل ب | ייירייי | 41) | مرسسار | 4 | ייא רייז | א כיי א נ | מים מים | ማ አጥ | caa | מ מ מ | י מייית | יין ייין ייין יין ייין ייין | 240 |
| 241 CCGCTCTCTGCGCCGTCGACGATATTCCCGCCACCACTAATAGAGGCGATCAAGTACAAA 36 A L C A V D D I P A T T N P G D Q V Q I 301 TCGATCCATCCAAGATCAAGGTCTCTATTGAGTATGGATTATGTGAAATGTTGAACATGC 36 D P S K I K V S I E Y G L C E M L N M Q 361 AAGCCATAAGACTTGGTATGGATTCAGCAATGGGAATTGGGTTTCGATAAATCACACC 42 A I R L G M D F S N G N W G F D K S H L 421 TTGAATCAACATTCCCAGTTGGGACGGTGGATCATAGTGTGGAACCACTCTATAAAGAGA 48 E S T F P V G T V D H S V E P L Y K E M 481 TGCCAAAATGGGAAGGACAGTCAATGGCGCAAGGCCCAGATATGAAGAGAGTTATTCAGG 54 P K W E E T V N G A R A R Y E E V I Q A 541 CCCTAGCAGATAAATACCCCACGGAGAACTTGTTGCTTGTTACACATGGGGAAGGAGTTG 60 L A D K Y P T E N L L L V T H G E G V G 661 ATACACACGCAAGAACAACCACTTTTTTGGGCAAAAACCAGTCATTTACTGCTGAAAACT 72 T H A R R S I V L G K N Q S F T A E N F 761 TTGAAGTATTACCAAAACAAGGCCAAACTGGTGTCAGTTACGTCCTTGAACAGCATTGAT 78: E V L P K Q G Q T G V S Y V L E Q H * 761 GGAACTGTATGACCTAATTGTGGGGAGCCGATTATTCCACACCTTTTT 84: 841 TCTTTTTTCGGGCATTTGCCTTCATTTAAAGGAGCAACAATTTCCACACCCTTTTT 84: 841 TCTTTTTTCGGGCATTTGCCTTCATTTAAAGGAGAACAATTTCCACACCCTTTTT 84: 841 TCTTTTTTCGGGCATTTGCCTTCATTTAAAGGAGCATTTTACTGCTCAAACACCTTTTT 84: 841 TCTTTTTTCGGGCATTTGCCTTCATTTAAATTAATTAAGGCATTTCCACACCCTTTTT 84: 841 TCTTTTTTCGGGCATTTGCCTTCATTTAAAGGAGAACAATTTCCACACCCTTTTT 84: 841 TCTTTTTTCGGGCATTTGCCTTCATTTAAATTAATTAATT | 191 | | | . . 77 | | | | | | 1 (C C . | | | | _ | | _ | | | . ב אנה. 77 | | | 2.0 |
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| D P S K I K V S I E Y G L C E M L N M Q 361 AAGCCATAAGACTTGGTATGGATTCAGCAATGGGAATTGGGGTTTCGATAAATCACACC 42 A I R L G M D F S N G N W G F D K S H L 421 TTGAATCAACATTCCCAGTTGGGACGGTGGATCATAGTGTGGAACCACTCTATAAAGAGA 48 E S T F P V G T V D H S V E P L Y K E M 481 TGCCAAAATGGGAAGAGACAGTCAATGGCGCAAGGGCCAGATATGAAGAGGGTTATTCAGG 54 P K W E E T V N G A R A R Y E E V I Q A 541 CCCTAGCAGATAAATACCCCACGGAGAACTTGTTGCTTGTTACACATGGGGAAGGAGTTG 60 L A D K Y P T E N L L V T H G E G V G 601 GCGTTGCAGTTTCTGCCTTCATGAAGGATGTTACAGTGTACGAAGCCGATTATTGTGCCT 66 V A V S A F M K D V T V Y E A D Y C A Y 661 ATACACACGCAAGAAGATCCATTGTCTTGGGCAAAAACCAGTCATTTACTGCTGAAAACT 72 T H A R R S I V L G K N Q S F T A E N F 721 TTGAAGTATTACCAAAACAAGGCCAAACTGGTGTCAGTTACGTCCTTGAACAGCATTGAT 78 E V L P K Q G Q T G V S Y V L E Q H * 781 GGAACTGTATGACCTAATTGTGGCAGCCGATGATTACAGAAACAATTTCCACACCTTTTT 84 841 TCTTTTTTCGGGCATTTGCCTACATTTTAAATTAATTAAGGCATTCTCACACCTTTTT 84 841 TCTTTTTTCGGGCATTTGCCTACATTTTAAAGGAGAACTTTTTTTT | | A | ببل | C | A | V | ט | D. | <u> </u> | ב | Ą | T | 1.1 | Ŋ | ₽, | ی | ני | Q | Ų. | Q | L | |
| D P S K I K V S I E Y G L C E M L N M Q 361 AAGCCATAAGACTTGGTATGGATTCAGCAATGGGAATTGGGGTTTCGATAAATCACACC 42 A I R L G M D F S N G N W G F D K S H L 421 TTGAATCAACATTCCCAGTTGGGACGGTGGATCATAGTGTGGAACCACTCTATAAAGAGA 48 E S T F P V G T V D H S V E P L Y K E M 481 TGCCAAAATGGGAAGAGACAGTCAATGGCGCAAGGGCCAGATATGAAGAGGGTTATTCAGG 54 P K W E E T V N G A R A R Y E E V I Q A 541 CCCTAGCAGATAAATACCCCACGGAGAACTTGTTGCTTGTTACACATGGGGAAGGAGTTG 60 L A D K Y P T E N L L V T H G E G V G 601 GCGTTGCAGTTTCTGCCTTCATGAAGGATGTTACAGTGTACGAAGCCGATTATTGTGCCT 66 V A V S A F M K D V T V Y E A D Y C A Y 661 ATACACACGCAAGAAGATCCATTGTCTTGGGCAAAAACCAGTCATTTACTGCTGAAAACT 72 T H A R R S I V L G K N Q S F T A E N F 721 TTGAAGTATTACCAAAACAAGGCCAAACTGGTGTCAGTTACGTCCTTGAACAGCATTGAT 78 E V L P K Q G Q T G V S Y V L E Q H * 781 GGAACTGTATGACCTAATTGTGGCAGCCGATGATTACAGAAACAATTTCCACACCTTTTT 84 841 TCTTTTTTCGGGCATTTGCCTACATTTTAAATTAATTAAGGCATTCTCACACCTTTTT 84 841 TCTTTTTTCGGGCATTTGCCTACATTTTAAAGGAGAACTTTTTTTT | | | | | | . ~ | | | | | | ~ | | | | ~~~ | | nam | | ~~~ | 777 | 260 |
| 361 AAGCCATAAGACTTGGTATGGATTTCAGCAATGGGAATTGGGGTTTCGATAAATCACACC 42 A I R L G M D F S N G N W G F D K S H L 421 TTGAATCAACATTCCCAGTTGGGACGGTGGATCATAGTGGGAACCACTCTATAAAGAGA 48 E S T F P V G T V D H S V E P L Y K E M 481 TGCCAAAATGGGAAGAGACAGTCAATGGCGCAAGGGCCAGATATGAAGAGAGGTTATTCAGG 54 P K W E E T V N G A R A R Y E E V I Q A 541 CCCTAGCAGATAAATACCCCACGGAGAACTTGTTGCTTGTTACACATGGGGAAGGAGTTG 60 L A D K Y P T E N L L V T H G E G V G 601 GCGTTGCAGTTTCTGCCTTCATGAAGGATGTTACAGTGTACGAAGCCGATTATTGTGCCT 66 V A V S A F M K D V T V Y E A D Y C A Y 661 ATACACACGCAAGAAGATCCATTGTCTTGGGCAAAAACCAGTCATTTACTGCTGAAAACT 72 T H A R R S I V L G K N Q S F T A E N F 721 TTGAAGTATTACCAAAACAAGGCCAAACTGGTGTCAGTTACGTCCTTGAACAGCATTGAT 78 E V L P K Q G Q T G V S Y V L E Q H * 781 GGAACTGTATGACCTAATTGTGGCAGCCGATGATTACAGAAACAATTCCACACCTTTTT 84 841 TCTTTTTTCGGGCATTTGCCTACATTTTATAATTAATTAA | 301 | | _ | | | _ | | | | | | | | | ATO | | | re I | | | _ | 300 |
| A I R L G M D F S N G N W G F D K S H L 421 TTGAATCAACATTCCCAGTTGGGACGGTGGATCATAGTGTGGAACCACTCTATAAAGAGA 48 E S T F P V G T V D H S V E P L Y K E M 481 TGCCAAAATGGGAAGAGACAGTCAATGGCGCAAGGGCCAGATATGAAGAGGTTATTCAGG 54 P K W E E T V N G A R A R Y E E V I Q A 541 CCCTAGCAGATAAATACCCCACGGAGAACTTGTTGCTTGTTACACATGGGGAAGGAGTTG 60 L A D K Y P T E N L L V T H G E G V G 601 GCGTTGCAGTTCTGCCTTCATGAAGGATGTTACAGTGTACGAAGCCGATTATTGTGCCT 66 V A V S A F M K D V T V Y E A D Y C A Y 661 ATACACACGCAAGAAGATCCATTGTCTTGGGCAAAAACCAGTCATTTACTGCTGAAAACT 72 T H A R R S I V L G K N Q S F T A E N F 721 TTGAAGTATTACCAAAACAAGGCCAAACTGGTGTCAGTTACGTCCTTGAACAGCATTGAT 78: E V L P K Q G Q T G V S Y V L E Q H * 781 GGAACTGTATGACCTAATTGTGGCAGCCGATGATTACAGAAACAATTTCCACACCTTTTT 84: 641 TCTTTTTTCGGGCATTTGCCTACATTTTATAATTAATTAA | | D | ₽ | S | K | Ι | K | V | S | I | E | Y | G | L | Ç | E | M | بذ | N | ľΔľ | Q | |
| A I R L G M D F S N G N W G F D K S H L 421 TTGAATCAACATTCCCAGTTGGGACGGTGGATCATAGTGTGGAACCACTCTATAAAGAGA 48 E S T F P V G T V D H S V E P L Y K E M 481 TGCCAAAATGGGAAGAGACAGTCAATGGCGCAAGGGCCAGATATGAAGAGGTTATTCAGG 54 P K W E E T V N G A R A R Y E E V I Q A 541 CCCTAGCAGATAAATACCCCACGGAGAACTTGTTGCTTGTTACACATGGGGAAGGAGTTG 60 L A D K Y P T E N L L V T H G E G V G 601 GCGTTGCAGTTCTGCCTTCATGAAGGATGTTACAGTGTACGAAGCCGATTATTGTGCCT 66 V A V S A F M K D V T V Y E A D Y C A Y 661 ATACACACGCAAGAAGATCCATTGTCTTGGGCAAAAACCAGTCATTTACTGCTGAAAACT 72 T H A R R S I V L G K N Q S F T A E N F 721 TTGAAGTATTACCAAAACAAGGCCAAACTGGTGTCAGTTACGTCCTTGAACAGCATTGAT 78: E V L P K Q G Q T G V S Y V L E Q H * 781 GGAACTGTATGACCTAATTGTGGCAGCCGATGATTACAGAAACAATTTCCACACCTTTTT 84: 641 TCTTTTTTCGGGCATTTGCCTACATTTTATAATTAATTAA | | | | | | | | | | | | | | | | | | | | | | 400 |
| 421 TTGAATCAACATTCCCAGTTGGGACGGTGGATCATAGTGTGGAACCACTCTATAAAAGAGA 48 E S T F P V G T V D H S V E P L Y K E M 481 TGCCAAAATGGGAAGACAGTCAATGGCGCAAGGGCCAGATATGAAGAGAGTTATTCAGG 54 P K W E E T V N G A R A R Y E E V I Q A 541 CCCTAGCAGATAAATACCCCACGGAGAACTTGTTGCTTGTTACACATGGGGAAGGAGTTG 60 L A D K Y P T E N L L V T H G E G V G 601 GCGTTGCAGTTTCTGCCTTCATGAAGGATGTTACAGATGTACGAAGCCGATTATTGTGCCT 66 V A V S A F M K D V T V Y E A D Y C A Y 661 ATACACACGCAAGAAGATCCATTGTCTTGGGCAAAAACCAGTCATTTACTGCTGAAAACT 72 T H A R R S I V L G K N Q S F T A E N F 721 TTGAAGTATTACCAAAACAAGGCCAAACTGGTGTCAGTTACGTCCTTGAACAGCATTGAT 78: E V L P K Q G Q T G V S Y V L E Q H * 781 GGAACTGTATGACCTAATTGTGGCAGCCGATGATTACAGAAACAATTTCCACACCTTTTT 84: 641 TCTTTTTTCGGGCATTTGCCTACATTTTAAATTAATTAAT | 361 | AAG | CAI | | | | | | | | | | | | | | | | | | _ | 420 |
| ESTFPVGTVDHSVEPLYKEM 481 TGCCAAAATGGGAAGAGACAGTCAATGGCGCAAGGGCCAGATATGAAGAGGGTTATTCAGG 54 PKWEETVNGAAACCCCACGGAGAACTTGTTGCTTGTTACACATGGGGAAGGAGTTG 60 LADKYPTENLLVTHGEGVGAGAACTTGTTGCTTGTTACACATGGGGAAGGAGTTG 60 LADKYPTENLLVTHGEGVGAGAGCCGATTATTGTGCCT 66 VAVSAFMKDVTVYEADYCAY 661 ATACACACGCAAGAAGATCCATTGTCTTGGGCAAAAACCAGTCATTTACTGCTGAAAACT 72 THARRSIVLGKNQSFTAAENF | | A | Ι | R | L | G | M | D | F | S | N | G | N | M | G | F | D | K | S | H | يا | |
| ESTFPVGTVDHSVEPLYKEM 481 TGCCAAAATGGGAAGAGACAGTCAATGGCGCAAGGGCCAGATATGAAGAGGGTTATTCAGG 54 PKWEETVNGAAACCCCACGGAGAACTTGTTGCTTGTTACACATGGGGAAGGAGTTG 60 LADKYPTENLLVTHGEGVGAGAACTTGTTGCTTGTTACACATGGGGAAGGAGTTG 60 LADKYPTENLLVTHGEGVGAGAGCCGATTATTGTGCCT 66 VAVSAFMKDVTVYEADYCAY 661 ATACACACGCAAGAAGATCCATTGTCTTGGGCAAAAACCAGTCATTTACTGCTGAAAACT 72 THARRSIVLGKNQSFTAAENF | | | | | | | | | | | | | | | | | | | | | | |
| 481 TGCCAAAATGGGAAGACAGTCAATGGCGCAAGGGCCAGATATGAAGAGGTTATTCAGG 54 | 421 | TTGA | LATC | AAC | ATT | 'CCC | AGT | TGG | GAC | GGI | GGA | TCA | TAG | TGT | 'GGA | ACC | AC1 | CTA | AAT | AGA | | 480 |
| F K W E E T V N G A R A R Y E E V I Q A 541 CCCTAGCAGATAAATACCCCACGGAGAACTTGTTGCTTGTTACACATGGGGAAGGAGTTG 60 L A D K Y P T E N L L L V T H G E G V G 601 GCGTTGCAGTTTCTGCCTTCATGAAGGATGTTACAGTGTACGAAGCCGATTATTGTGCCT 66 V A V S A F M K D V T V Y E A D Y C A Y 661 ATACACACGCAAGAAGATCCATTGTCTTGGGCAAAAACCAGTCATTTACTGCTGAAAACT 72 T H A R R S I V L G K N Q S F T A E N F 721 TTGAAGTATTACCAAAACAAGGCCAAACTGGTGTCAGTTACGTCCTTGAACAGCATTGAT 78 E V L P K Q G Q T G V S Y V L E Q H * 781 GGAACTGTATGACCTAATTGTGGCAGCCGATGATTACAGAAACAATTTCCACACCTTTTT 84 641 TCTTTTTTCGGGCATTTGCCTACATTTTATAATTAATTAGGCATTCCTCAAACAGAA 96 601 CATTGGATTCACATCCCTACTTGTTTAAAGGAGACTTTTGTTTG | | E | S | T | F | P | V | G | T | V | D | H | S | V | Ξ | ₽ | Ļ | Y | K | E | M | |
| F K W E E T V N G A R A R Y E E V I Q A 541 CCCTAGCAGATAAATACCCCACGGAGAACTTGTTGCTTGTTACACATGGGGAAGGAGTTG 60 L A D K Y P T E N L L L V T H G E G V G 601 GCGTTGCAGTTTCTGCCTTCATGAAGGATGTTACAGTGTACGAAGCCGATTATTGTGCCT 66 V A V S A F M K D V T V Y E A D Y C A Y 661 ATACACACGCAAGAAGATCCATTGTCTTGGGCAAAAACCAGTCATTTACTGCTGAAAACT 72 T H A R R S I V L G K N Q S F T A E N F 721 TTGAAGTATTACCAAAACAAGGCCAAACTGGTGTCAGTTACGTCCTTGAACAGCATTGAT 78 E V L P K Q G Q T G V S Y V L E Q H * 781 GGAACTGTATGACCTAATTGTGGCAGCCGATGATTACAGAAACAATTTCCACACCTTTTT 84 641 TCTTTTTTCGGGCATTTGCCTACATTTTATAATTAATTAGGCATTCCTCAAACAGAA 96 601 CATTGGATTCACATCCCTACTTGTTTAAAGGAGACTTTTGTTTG | | | | | | | | | | | | | | | | | | | | | | |
| 541 CCCTAGCAGATAAATACCCCACGGAGAACTTGTTGCTTGTTACACATGGGGAAGGAGTTG 60 L A D K Y P T E N L L L V T H G E G V G 601 GCGTTGCAGTTTCTGCCTTCATGAAGGATGTTACAGTGTACGAAGCCGATTATTGTGCCT 66 V A V S A F M K D V T V Y E A D Y C A Y 661 ATACACACGCAAGAAGATCCATTGTCTTGGGCAAAAACCAGTCATTTACTGCTGAAAACT 72 T H A R R S I V L G K N Q S F T A E N F 721 TTGAAGTATTACCAAAACAAGGCCAAACTGGTGTCAGTTACGTCCTTGAACAGCATTGAT 78 E V L P K Q G Q T G V S Y V L E Q H * 781 GGAACTGTATGACCTAATTGTGGCAGCCGATGATTACAGAAACAATTTCCACACCTTTTT 840 691 CATTGGATTCACATCCCTACTTGTTTAAAGGAGAACTTTGATTTGTTGCCTCCAAACAGAA 960 | 481 | TGCC | AAA | ATG | GGA | AGA | .GAC | AGT | 'CAA | TGG | CGC | AAG | GGC | CAG | ATA | TGA | AGA | GGT | 'TAT | TÇA | | |
| L A D K Y P T E N L L L V T H G E G V G 601 GCGTTGCAGTTTCTGCCTTCATGAAGGATGTTACAGTGTACGAAGCCGATTATTGTGCCT 66 V A V S A F M K D V T V Y E A D Y C A Y 661 ATACACACGCAAGAAGATCCATTGTCTTGGGCAAAAACCAGTCATTTACTGCTGAAAACT 72 T H A R R S I V L G K N Q S F T A E N F 721 TTGAAGTATTACCAAAACAAGGCCAAACTGGTGTCAGTTACGTCCTTGAACAGCATTGAT 78 E V L P K Q G Q T G V S Y V L E Q H * 781 GGAACTGTATGACCTAATTGTGGCAGCCGATGATTACAGAAACAATTTCCACACCTTTTT 840 641 TCTTTTTTCGGGCATTTGCCTACATTTTATAATTAAGTAAG | | P | K | W | E | E | T | V | N | G | A | R | A | R | Y | E | E | V | I | Q | A | |
| L A D K Y P T E N L L L V T H G E G V G 601 GCGTTGCAGTTTCTGCCTTCATGAAGGATGTTACAGTGTACGAAGCCGATTATTGTGCCT 66 V A V S A F M K D V T V Y E A D Y C A Y 661 ATACACACGCAAGAAGATCCATTGTCTTGGGCAAAAACCAGTCATTTACTGCTGAAAACT 72 T H A R R S I V L G K N Q S F T A E N F 721 TTGAAGTATTACCAAAACAAGGCCAAACTGGTGTCAGTTACGTCCTTGAACAGCATTGAT 78 E V L P K Q G Q T G V S Y V L E Q H * 781 GGAACTGTATGACCTAATTGTGGCAGCCGATGATTACAGAAACAATTTCCACACCTTTTT 840 641 TCTTTTTTCGGGCATTTGCCTACATTTTATAATTAAGTAAG | | | | | | | | | | | | | | | | | | | | | | |
| 601 GCGTTGCAGTTTCTGCCTTCATGAAGGATGTTACAGTGTACGAAGCCGATTATTGTGCCT 66 V A V S A F M K D V T V Y E A D Y C A Y 661 ATACACACGCAAGAAGATCCATTGTCTTGGGCAAAAACCAGTCATTTACTGCTGAAAACT 72 T H A R R S I V L G K N Q S F T A E N F 721 TTGAAGTATTACCAAAACAAGGCCAAACTGGTGTCAGTTACGTCCTTGAACAGCATTGAT 78 E V L P K Q G Q T G V S Y V L E Q H * 781 GGAACTGTATGACCTAATTGTGGCAGCCGATGATTACAGAAACAATTTCCACACCTTTTT 840 641 TCTTTTTTCGGGCATTTGCCTACATTTTATAATTAATTAGGCATTCTCATAGCTAAGGCT 900 601 CATTGGATTCACATCCCTACTTGTTTAAAGGAGACCTTTTGTTGCCTCCAAACAGAA 960 | 541 | CCCI | 'AGC | AGA' | TAA | ATA | .CCC | CAC | GGA | GAA | CTT | GTT | GCT' | TGT' | TAC | ACA | TGG | GGA | AGG. | AGT' | TG | 600 |
| V A V S A F M K D V T V Y E A D Y C A Y 661 ATACACACGCAAGAAGATCCATTGTCTTGGGCAAAAACCAGTCATTTACTGCTGAAAACT 72 T H A R R S I V L G K N Q S F T A E N F 721 TTGAAGTATTACCAAAACAAGGCCAAACTGGTGTCAGTTACGTCCTTGAACAGCATTGAT 78 E V L P K Q G Q T G V S Y V L E Q H * 781 GGAACTGTATGACCTAATTGTGGCAGCCGATGATTACAGAAACAATTTCCACACCTTTTT 846 841 TCTTTTTTCGGGCATTTGCCTACATTTTATAATTAATTAGGCATTCTCATAGCTAAGGCT 900 801 CATTGGATTCACATCCCTACTTGTTTAAAGGAGACTTTTGTTGCCTCCAAACAGAA 960 | | Ŀ | A | D | K | Y | Ď | T | E | N | L. | L | L | V | T | H | G | E | G | V | G | |
| V A V S A F M K D V T V Y E A D Y C A Y 661 ATACACACGCAAGAAGATCCATTGTCTTGGGCAAAAACCAGTCATTTACTGCTGAAAACT 72 T H A R R S I V L G K N Q S F T A E N F 721 TTGAAGTATTACCAAAACAAGGCCAAACTGGTGTCAGTTACGTCCTTGAACAGCATTGAT 78 E V L P K Q G Q T G V S Y V L E Q H * 781 GGAACTGTATGACCTAATTGTGGCAGCCGATGATTACAGAAACAATTTCCACACCTTTTT 846 841 TCTTTTTTCGGGCATTTGCCTACATTTTATAATTAATTAGGCATTCTCATAGCTAAGGCT 900 801 CATTGGATTCACATCCCTACTTGTTTAAAGGAGACTTTTGTTGCCTCCAAACAGAA 960 | | | | | | | | | | | | | | | | | | | | | | |
| 661 ATACACACGCAAGAAGATCCATTGTCTTGGGCAAAAACCAGTCATTTACTGCTGAAAACT 72 T H A R R S I V L G K N Q S F T A E N F 721 TTGAAGTATTACCAAAACAAGGCCAAACTGGTGTCAGTTACGTCCTTGAACAGCATTGAT 78 E V L P K Q G Q T G V S Y V L E Q H * 781 GGAACTGTATGACCTAATTGTGGCAGCCGATGATTACAGAAACAATTTCCACACCTTTTT 840 841 TCTTTTTTCGGGCATTTGCCTACATTTTATAATTAATTAGGCATTCTCATAGCTAAGGCT 900 801 CATTGGATTCACATCCCTACTTGTTTAAAGGAGACTTTGATTTGTCCCCCAAACAGAA 960 | 601 | GCGT | TGC. | AGT' | TTC' | TGC | CTT | CAT | GAA | GGA | TGT' | rac. | AGT(| GTA | CGA | AGC | CGA | TTA | TTG | TGC | CT | 660 |
| T H A R R S I V L G K N Q S F T A E N F 721 TTGAAGTATTACCAAAACAAGGCCAAACTGGTGTCAGTTACGTCCTTGAACAGCATTGAT 78 E V L P K Q G Q T G V S Y V L E Q H * 781 GGAACTGTATGACCTAATTGTGGCAGCCGATGATTACAGAAACAATTTCCACACCTTTTT 846 841 TCTTTTTTCGGGCATTTGCCTACATTTTATAATTAATTAGGCATTCTCATAGCTAAGGCT 900 801 CATTGGATTCACATCCCTACTTGTTTAAAGGAGACTTTGATTTGTTGCCTCCAAACAGAA 960 | | V | A | V | S | \mathcal{F} | F | M | K | D | V | T | V | Y | Ξ | A | D | Y | C | A | Y | |
| T H A R R S I V L G K N Q S F T A E N F 721 TTGAAGTATTACCAAAACAAGGCCAAACTGGTGTCAGTTACGTCCTTGAACAGCATTGAT 78 E V L P K Q G Q T G V S Y V L E Q H * 781 GGAACTGTATGACCTAATTGTGGCAGCCGATGATTACAGAAACAATTTCCACACCTTTTT 846 841 TCTTTTTTCGGGCATTTGCCTACATTTTATAATTAATTAGGCATTCTCATAGCTAAGGCT 900 801 CATTGGATTCACATCCCTACTTGTTTAAAGGAGACTTTGATTTGTTGCCTCCAAACAGAA 960 | | | | | | | | | | | | | | | | | | | | | | |
| 721 TTGAAGTATTACCAAAACAAGGCCAAACTGGTGTCAGTTACGTCCTTGAACAGCATTGAT 78 E V L P K Q G Q T G V S Y V L E Q H * 781 GGAACTGTATGACCTAATTGTGGCAGCCGATGATTACAGAAACAATTTCCACACCTTTTT 846 841 TCTTTTTTCGGGCATTTGCCTACATTTTATAATTAATTAGGCATTCTCATAGCTAAGGCT 900 801 CATTGGATTCACATCCCTACTTGTTTAAAGGAGACTTTGATTTGTTGCCTCCAAACAGAA 960 | 661 | ATAC | ACA | CGC | AAG | AAG. | ATC | CAT' | TGT | CTT | GGG | CAA | AAA | CCA | GTC. | ATT' | TAC | TGC' | TGA | AAA | CT | 720 |
| E V L P K Q G Q T G V S Y V L E Q H * 781 GGAACTGTATGACCTAATTGTGGCAGCCGATGATTACAGAAACAATTTCCACACCTTTTT 84 841 TCTTTTTTCGGGCATTTGCCTACATTTTATAATTAATTAGGCATTCTCATAGCTAAGGCT 90 901 CATTGGATTCACATCCCTACTTGTTTAAAGGAGACTTTGATTTGTTGCCTCCAAACAGAA 96 | | T | H | A | R | R | Ş | I | V | L | G | K | N | Q | S | F | T | A | Ξ | N | F | |
| E V L P K Q G Q T G V S Y V L E Q H * 781 GGAACTGTATGACCTAATTGTGGCAGCCGATGATTACAGAAACAATTTCCACACCTTTTT 84 841 TCTTTTTTCGGGCATTTGCCTACATTTTATAATTAATTAGGCATTCTCATAGCTAAGGCT 90 901 CATTGGATTCACATCCCTACTTGTTTAAAGGAGACTTTGATTTGTTGCCTCCAAACAGAA 96 | | | | | | | | | | | | | | | | | | | | | | |
| 781 GGAACTGTATGACCTAATTGTGGCAGCCGATGATTACAGAAACAATTTCCACACCTTTTT 846 841 TCTTTTTTCGGGCATTTGCCTACATTTTATAATTAATTAGGCATTCTCATAGCTAAGGCT 906 901 CATTGGATTCACATCCCTACTTGTTTAAAGGAGACTTTGATTTGTTGCCTCCAAACAGAA 966 | 721 | TTGA | AGT | ATTA | ACC | AAA | ACA/ | AGG | CCA | AAC' | TGGT | rgro | CAG | TTA | CGT | CCT' | TGA | ACA | GÇA! | rtgi | AT | 780 |
| 941 TCTTTTTTCGGGCATTTGCCTACATTTTATAATTAATTAGGCATTCTCATAGCTAAGGCT 900 901 CATTGGATTCACATCCCTACTTGTTTAAAGGAGACTTTGATTTGTTGCCTCCAAACAGAA 960 | | E | V | L | P | X | Q | G | Q | T | G | V | S | Y | V | L | Ξ | Q | Ħ | * | | |
| 941 TCTTTTTTCGGGCATTTGCCTACATTTTATAATTAATTAGGCATTCTCATAGCTAAGGCT 900 901 CATTGGATTCACATCCCTACTTGTTTAAAGGAGACTTTGATTTGTTGCCTCCAAACAGAA 960 | | | | | | | | | | | | | | | | | | | | | | |
| 901 CATTGGATTCACATCCCTACTTGTTTAAAGGAGACTTTGATTTGTTGCCTCCAAACAGAA 960 | 781 | GGAA | CTG: | rato | GAC | CTA | ATTO | GTG | GCA(| GCC | GATO | ATT | CACA | AGA. | AAC | AAT | TTC | CAC | ACCI | r T T | rT | 840 |
| VOI CALIGORIE CONTROLLO IL INMOGRANCIII CALII COCCIOCII COLOCIOCIOCIOCIOCIOCIOCIOCIOCIOCIOCIOCIOCIO | 341 | TCTT | r t t: | rcgo | GC? | ATT | rgc | CTA | CAT | TTT | ATA | TT | ATI | rago | GCA! | TTC | rca' | TAG | CTA | AGG | TT | 900 |
| | 901 | CATT | GGA1 | TC | ACA | rcc | CTAC | CTTC | GTT: | raa <i>i</i> | AGGA | GAC | TTT | [GA] | CTTC | GTT | GCC' | rcci | AAA | CAG | A.A | 960 |
| | 961 | CATA! | rgri | rgci | GTO | FTC | CATO | CAG | CTT | r t T | TAP | CTO | GGF | TTI | CTF | TT | rtt. | ACA | GTGT | rgt <i>i</i> | A. | 1020 |

Figure 6

| 121 181 241 301 | Ε | D | V | R ICCI P | | AAC | Q L GATG | R | K | И | A | R | V | 7 | A | I | D | S | Y | |
|--------------------------|---------|-------------|------|----------------|----------|--------|-------------|---------|------|--------------|--------|-----------------------|------|------|-------|------|------------|------|-------|-----|
| 121 181 241 301 | E CG | D | V | | | | GATG | תרי תי | | | | | | | | | | | | |
| 181 241 301 | CG | CGT | · | P | L | | | MUA | ACG(| CAT | TGA | AAA. | AGG | CAG' | TGG | CTA | GTCA | AGC | TGTG | 120 |
| 181 241 301 | | | ~~~ | | | N I |) E | N | A | Ļ | K | K | A | 7 | A | S | Q | P | V | |
| 241 301 | R | 77 | ノンひし | CATI | GAA | .GGA | GTG | GCA | GGG2 | ATT | rcci | AAC | rct. | ATC | AAT | CAGO | ECG1 | CTI | TACT | 180 |
| 241 301 | | V | A | I | E | G (| G G | R | D | F | Q | Ļ | Y | Q | S | G | V | F | T | |
| 241 301 | GG. | ATC | ATGI | GGG | ACG | GCC | TAG. | ACC | ATGO | TGT | .GGC | TGC | TGT | TGG | GTA | ATGO | CAC | AGA | AAAT | 240 |
| 301 . 361 (| G | S | С | G | T . | A I | ם | H | G | V | A | A | V | G | Y | G | T | E | N | ø |
| 301 . 361 (| GG: | rgro | GAT | TAC | TGG. | ATTO | TAA | GGA | ACTO | ATG | GGG | TGC | AAC | CTG | GGG | AGA | GAG | CGG | CTAC | 300 |
| 361 0 | G | V | D | Y | W | I V | R | N | S | W | G | A | S | Ň | G | E | S | G | Y | |
| 2 | ATO | AGG | ATG | GAA | CGT | AATC | TGG | CAGO | CAC | AGC | TAC | 'GGG | CAA | ATG | TGG | TAT | TGÇ. | AAT | GGAA | 360 |
| 2 | I | 2 | M | E | R i | N L | A | G | T | A | T | G | K | C | G | I | A | M | E | |
| 1 | GCC | TCI | TAC | CCT. | ATT | AAGA | AAG | GCCA | AAA | TCC | CCC | AAA | CCC | AGG | ACC | ATC | TCC' | TCC. | ATCT | 420 |
| 421 (| A | S | Y | p | I | K K | G | Q | N | P | Þ | N | P | G | P | S | P | D, | S | |
| | | ATA | AAG | ACC' | TCC | AACA | لىلىلىك | יייטייי | GAC | ል ል ም | רים כי | ינו עני | ACC | كشت | GCT | GAA | AGC | ACC | ACTT | 480 |
| I | 2 | | | | S N | | F | V | T | I | T | I | Þ | W | L | K | A | P | L | |
| 481 (| GCT | GCT | GTC: | TAT' | rtga | GTT | TGGC | AGG | TAT' | rgc | TTC | GAG' | TGG | GGA' | IGT' | rgc | CCAC | TCC | EAGG | 540 |
| | | _ | | | L S | | A | G | I | A | s | S | G | D | V | A | Н | S | R | |
| 541 C | TG | CCA | CTT | GCTO | STGA | TGA | CCAT | TAC | AGT: | rgc | rgc | CAC | CAT | GAG' | TAT | | ATCI | GCA | ACC | 600 |
| I | | | | 7 [| , | | I | T | V | A | A | H | M | S | I | P | S | A | T | |
| 501 T | TA | ATG | CAGO | GAC | GTG | TAT | GATG | AGA | AGGA | ACA | ACCO | CAT | rgad | TGT | rgaz | \GG(| TTAT | GAA | .GCG | 660 |
| I | | | 2 G | | | | | | | | | | | | | | | | | |
| 61 T | 'AC' | rcc | CGCI | TAAA | CCT | CATT | rggg | CCT | rTGO | GAA | YCC0 | TGO | GCA/ | AGAC | CAC | CAC | TGC | TTA | AGA | 720 |
| 721 A | _ | | | | | | | | | | | | | ; | | | | | | 780 |
| 781 T | TG. | ATG! | ATCI | CCI | CGG | TTTI | CATA | GTA | CGC | ATA | rada | TCA | TTC | TCC | :ATI | 'AAG | GTC | ATA | TAC | 840 |
| 141 A | TA | rggz | ACGG | TTT | ATC. | AAAC | TTT. | ATTO | CAGA | TGC | TAA | TT | TGT | ATA | TAT | CAI | TTC | TCA | GTC | 900 |
| 01 7 | الملاف | יות אונים ו | -m | ייין אַר ד | א נגונה) | 7 ~~ × | ~ n n . | ~ x ~ * | | | maa | א וניי ייי | m~= | ~~ | 12 ~~ | | ب ابلانداد | ~~~ | m – m | 960 |

Figure 7

| | | 1 | CG | GTI | CAA | ATCO | CTC | GGA: | rca. | ATCO | AGC | ATA | TGG | CGA | TGT | ATC | CGG | TTG | ATA | CGC | TTA | AAA | 60 |
|--|------------|---------------|----------------------|--------------------------|------------------------|--------------|------------------------|--------------------|---------------------|-------------------|-----------------|------------------|-----------|----------------------|---------------------|--------------|---------------|---------------------|--|------------|--------------|---------|-----|
| | | | G | | | | | | | C E | | | | | | | | | | L | K | | |
| | | | | | | | | | | | | | | | | _ | | _ | _ | | | | |
| | ć | 61 | TC | GCA | TAC | AGC | CT | ATTO | GG1 | CAT | GTT | CGG | CTC | AAT | CCG | CCG | GTC' | rcc | GAC | AAG | כככי | TTGG | 120 |
| | | | R | | | | 3 | _ | | | | | | | | | L | R | 0 | _ | | G | |
| | | | | | | | | | | | | • | = | _ | | _ | _ | •- | * | • • | | | |
| | 11 | 1 | GT | CGA | TAC | TGA | AAC | TTC | AAG | GTC | CCG | CCG | GAC | . ئىدلىيا | ኋ <mark>ሮ</mark> ሶር | ישרבנ | ግ ሮል ነ | ביריו | TTG(| ים מי | raac | TCI | 180 |
| | | | S | Ī | L | | _ | _ | _ | | | | L | - + +. <u>.</u> . | R | G | I | G. | A. | M | G | L | 100 |
| | | | | | | | | | | • | •• | • | | - | 10 | J | | G | • | • • | • | | |
| | 19 | 11 | CG | TG: | CAG | GAC | CAG | CTC | ACG | CAG | יייבאין | טיבויני <i>ע</i> | املامانا | وكال | د دله دلاوند د | ويمس | י בא מ יי | ادان تارد | 7. 17. 17. 17. 17. 17. 17. 17. 17. 17. 1 | \ | sana | TTT | 240 |
| | | _ | G | A | _ | | | | | V | | F' | S | | . Y Y Y | | M M | بروي. ح | ; i Az K | iggi E | ייני ייני | F | 240 |
| | | | | | | ~ | | • | • • • | | 1. | . | 3 | V | ĭ | Ξ. | 172 | _ | K | = | 1. | 2 | |
| | 24 | 1 | TTC | TC | ATĠ | STG | ATC | CGA | GCA. | Δ ጥጥ _ር | رتابات | ביייבר בייי | دساتاد | م بسرم د | | را ملدمله د | | له ما ما | لەملەنكاد | | ran a | ملتكت | 300 |
| | | _ | s | Ħ | G | D | p | | | | G | J.GC A | ىكى. H | 4CGC | v V | . 1 - L S | عون ج | v V | . <u>१</u> र. च | A | - CP / C | v V | 300 |
| | | | - | | _ | _ | _ | Ī | • • | | . G | ~ | T. | | V | 3 | 3 | V | <i>=</i> | .~t. | 1 | V | |
| | 30 | 1 (| GGC | AAC | icg: | ica | TGG | TGA | מידיד מידיד | | יי אברי | א הייביי | Trong | | א היייני | 7 ~7 | ~*~ | بلدمك بب | ~~ | CTT | א היי הייני | C n C | 360 |
| | | _ | A | s | ם | A | v | | יד. יד | g Ç | M | D D | V | . . | K K | ٥ | _ | r 4 4 5 7 | _ | | _ | S | 700 |
| | | | •- | _ | | •• | · | - | * | 2 | 1-1 | U | V | • | ~ | Q | ま. | سد | Q | با | Q | 3 | |
| | 35 | 1 (| ZAG | TCC | ביד: | CAZ | 4.GG | دىلت | ויבויריו | ע ביואיו. מ | T-T-T- | ماد بسامياً . | ~ * ~ | ~ ~ ~ | | ~~~ | ~~~ | 202 | n ~ n | 7 ~~~ | CT N. (TH | m~~ | 420 |
| | | · · | S | ָם ס | Ÿ | K | G | v | V | רו בינטיי | - | | | | | ندای | | | _ | | _ | | 420 |
| | | | J | • | - | 20 | 3 | ٧ | ٧ | IJ | C | V | R | 尺 | V. | فسلا | V | E | E | G | Ţ | G | |
| | 421 | , (| ،رتار | ድ ጥጥ 2 | تربين | ردد | ነ <u>አ</u> ጥር | لا بلديادي | ישרים | מת לי | ת הי | man. | ~~~ | ~ ~ ~ | ~ | | | ~~~ | | | ~~~ | 777 | 400 |
| | T 44 - | • | Δ | | v | A | S | Y | R | 72°42'4. T | AAC T | TGT | | | | | _ | | rac | الكاليات | | | 480 |
| | | | | ~ | • | - | 3 | 4 | R | 4 | Ţ | • 🗸 | V | M | N | A | ₽ | F | T | À | V | H | |
| | 481 | , , | أعلديك | حاتات | ראַר | מדמ | TC | AGC | · ~ * ~ | א הייי | ~ n n | » ~ ~ · | ~~~ | ~~~ | | | | | ~~~ | ~~ ~ | no | *** | |
| | * U | . • | F | Å | Th Creec | Y | E | | | K K | gaa K | | | | | | | | | _ | _ | JAA | 740 |
| | | | • | •• | • | • | ••• | | . • | 2. | A | G | L | Ļ | E | V | S | Ď | E | T | A | N | |
| 541 CGATGAGAATTTGTTAGTGCATGCTACTGCTGGTGCTGCTGCTGGAGCTTTGGCTGCAGT | | | | | | | | | | | | | | | ~~~ | | | | | | | | |
| | J 1.4 | | D. | Ē | N | ī. | L | V | H | A | IAC. T | | | | | | | | _ | _ | _ | | 500 |
| | | | | | 24 | *** | 4 | ٧ | 11 | A | Ţ | A | G | A | A | A | G | A | Ŀ | A | A | V | |
| | 601 | A | GTZ | ACC | 72 <i>(</i> 77 | יייין | <u>አ</u> ርግጥ | מבום" | ىلىتىلىل | Trom/ | מל מלים מלים | \ACI | | | . ~ . ~ | | | ~~ | | | | <i></i> | ~~~ |
| | | | - | T) | т. П | P | T. | AGA D | V | A. | -AA K | | | _ | _ | TGC | _ | _ | .G.T. | TGC. | | _ | 660 |
| | • | | • | • | • | • | - | u | V | V | r. | T | Q | Ļ | Q | C | Q | G | | C | G | C | |
| | 66 I | C | 3A.C | 'AGZ | لمشمك آ | مامل | rac. | ריא הי | Т-т- С-/ | <u> </u> | יים יים ארם | GAI | .~~ | | ~~~ | | | | | | | | 720 |
| | | |) | Į. | ST. | s. | S | S | S | Jari I | _ | | | | | | | | | iaaa •• | | | 720 |
| | | • | • | •~ | - | _ | 3 | | J | <u> </u> | Q | D | V | Ξ | G | S | I | V | K | A | N | G | |
| , | 771 | Δ٦ | ייע | CTC | · c cc | א ליים. א | 3 2 ጥ <u></u> | C3 (C) | ,,,,,,,, | | 1 2 MM | | | | | | _ | | | | | ~~ . | • |
| | | | | | _ | _ | M W | R | | | | .ccc | | | | | | | • | | | _ | 780 |
| | | • | • | • | G | | 141 | R. | G | W | I | P | R | M | L | ? | H . | A | P | A | Α . | A | |
| • | 751 | Δ Δ | ا الله | سائس ب | تى تىرىك | خەمامىك | * 74 /~~ | ت الاجازية | | | | | | | | | | | | | | | |
| | , <u> </u> | I | | | | S | m T | _ | | | | | | | TTT | | | CTC. | AAT | GAG. | | AA 8 | 340 |
| | | بغر | ' | _ | ** | 3 | ÷ | Ž. | = | A | Ş | K | Ţ | = | F (| Q : | K : | L . 1 | N | E | s i | N | |
| a | 147 | ጥአ | <u>~</u> ~ | ת ה | ر. بار در در | ىد مەربىك | ماملاما | 77 A | 4F4 | * | | : | | | | | | | | | | | |
| _ | 47 | S | | vara. V | AGG S | | V V | - ACC | TAA | GAT | TTC | ATA' | IGT | LIL | TGT' | rgc: | rct) | ACT | AGG | CTT. | ATC | CA S | 100 |
| | | ی | 4 | ,▼ | | J | ٧ | T | | | | | | | | | | | | | | | |
| a | רח | א א | ል ጥ⁄ | יים תר | باشت | ייה אניבי | ₩ ~~ | -ددخارف و | ·~ - | · | • | | | | | | | | _ | | | | |
| د. ۵ | 61 | ملدمل چيجي | ው አ ማ | ירדו על ב קידו שייר (| د الامادات امر ۲ ت | THE THE | יים מידי ביים ביידי | | CAC | TTC | ACC. | ACA(| TTT(| GCC! | ATG! | LAC! | AAC? | rcai | AAG | CAT | CGA | AT 9 | 60 |
| _ | 77 | <u>+</u> + + | 2 /24 / 13 /24 /2 | مدفعهانان م ۳ کیم | د مدامیاند. چه ۳ چې | ትምት አማጥ | ጨሥ ራ ተሣታ | .GCA | ATC | TAG | ATG(| CTT(| CTT(| JAT! | ATT | rat? | CTTI | CAT: | rtt' | TTC: | rtti | rc 1 | 020 |
| 10 | 91 | V 4- | مارين. ز خيرين | - A. A | | 7 | THG | ;#\#\`[\ N = — | TAG | CTA | CTA' | rgg: | [TA] | rgg | CATO | GA(| FTGT | (TT) | TAT! | AAT | rgci | CA 1 | 080 |
| - | 4. | - L | T / | | - 12 F 5 | ~ + \$A | | *** *** | GCT | ATT' | TGA | JAA | YTT(| TGC | FTG: | CAAC | GTI | :AG | \GT/ | LAT(| STTP | AT 1 | 140 |

Figure 8

ACCATATAT TIACATIATE GCCAAACATG CTAAAAGCTT CTTGTATTCA GTGAAAATGF GGTGTCAAAF CCCAAGATTC TTCATGTGCC CTCTCTCT I'A AAAAAGATTA CAAACAAATT ACTCCTATCA TTATTATAAA AATAGTAGCA TAACCTCATC TCCAATCCAC ATTICICAAC BARITABACT BEBAGATAAT CTECETTEAG BTGATAACT AANTGGTAGA BTRICEGITG AGTACECECA ATABITTAAA ATCTECAGEA "I ACCCAACTGC ACAAAACACA CAAGCACACA TCCAAAAGTA GI'AGTATGAT TACACACATT TGAAAAATG TGIGGGAIGA GAAAAIGIAT GAGACIGGCC ATTAGITITA GCCGGAIGIG ATTIGGIAT ATIGAIGACA ATATAAGAIA TATAAAACIT GAACAAAACA CHAAAGAAGG GHATATCITT TAITCATATA TCTACTITIG ATATGACCTA AACCITGTGT CACCCACAAT GITCAGIACG ATGGATAATT GITTGACTTG THANTIGGTA TATGTAANIC ACTORGAAAC ACGTATACCA TATATGCATC AATGTCAATG TCACAGAAAA CGTAACTCAC GAACATTT CGTAACATGC ATGCACCAAT CATACATTAT AACATGTGT TACGACAATA AAAGATCTTT AGTCGTAAGA GCATTAGCTC GTGACAAGAA CAAAAACGTG GATTCCCAAC AAAGGAAAGT CTTTTCTTG AACCCATATG GAAGCAATTT CAATGAGAGA GATAGAGAGG AGGGATGGAG ATTGGGGTGG AGAATTGATA CGGATCTTCT ACCEGECTAA CTITGCATIT CUTGTCAUTU GGTGACTTTT TAUTGCCCAA TIGTGGCTTG AAGGAAATAA AAAGIIGGGIIC CIGAGIICAGG IGIGIICCCAT CIGIICAATAT ICTITICAAAAG AGAGIICCACC AICTICATAGA NITCGGACTC CICCAAAAAC TIATGACATT GIGATTACAC AITIGAATGA CAGAAGITIT IGATGAAGTG AAAGGGTGTT TTTGTAATTA AAAGAAAGAT AAGGAAATTT AGCAAGAAGT GCATTATTGG GACTGGTATA CANAATACGC ACACCACAAA AAATTCTTTT TGTATTATAT TCGTTTTTTA TTTTTTAAC GTTTTTGGTAT TURCCEGAUR TGFRACTCTC AACAAATCA AGCTTTTGAT CATATAAATC GAAACCAACA CACAATATT Putative promoter sequence CICICICICI CICICCICCI CCICCICCIC ICICICIC AICAACITGA GGGCTITAGG ACCICIATAT AAACCICICI CAATIGAICA ICICIGC AAGATAATAA TACCTATTAG TGTCTTTAAC TGAGATTTAG AAAGTGGTTT CCACAAAAA GAFCTTATAT TGEGGATGCA AAGTTTGAAA AIGAATTICT TIGACICITIT GICTCTGTAC TCAAACATCA TATAAGTAAG GGGGAATATT CCAATATCAA TCTTTTCTTA ATTGCTTCAT TATGACAAGG ATCTGACGTG GCAAAGAAAG AGAGIGAATA AAGGICAIGG ICACCIACI ACCTCCATTA TTTTAGCCAC CECTCTTG 1701 1601 1401 1501 1201 1001 1301 901 803 701 301 201 101

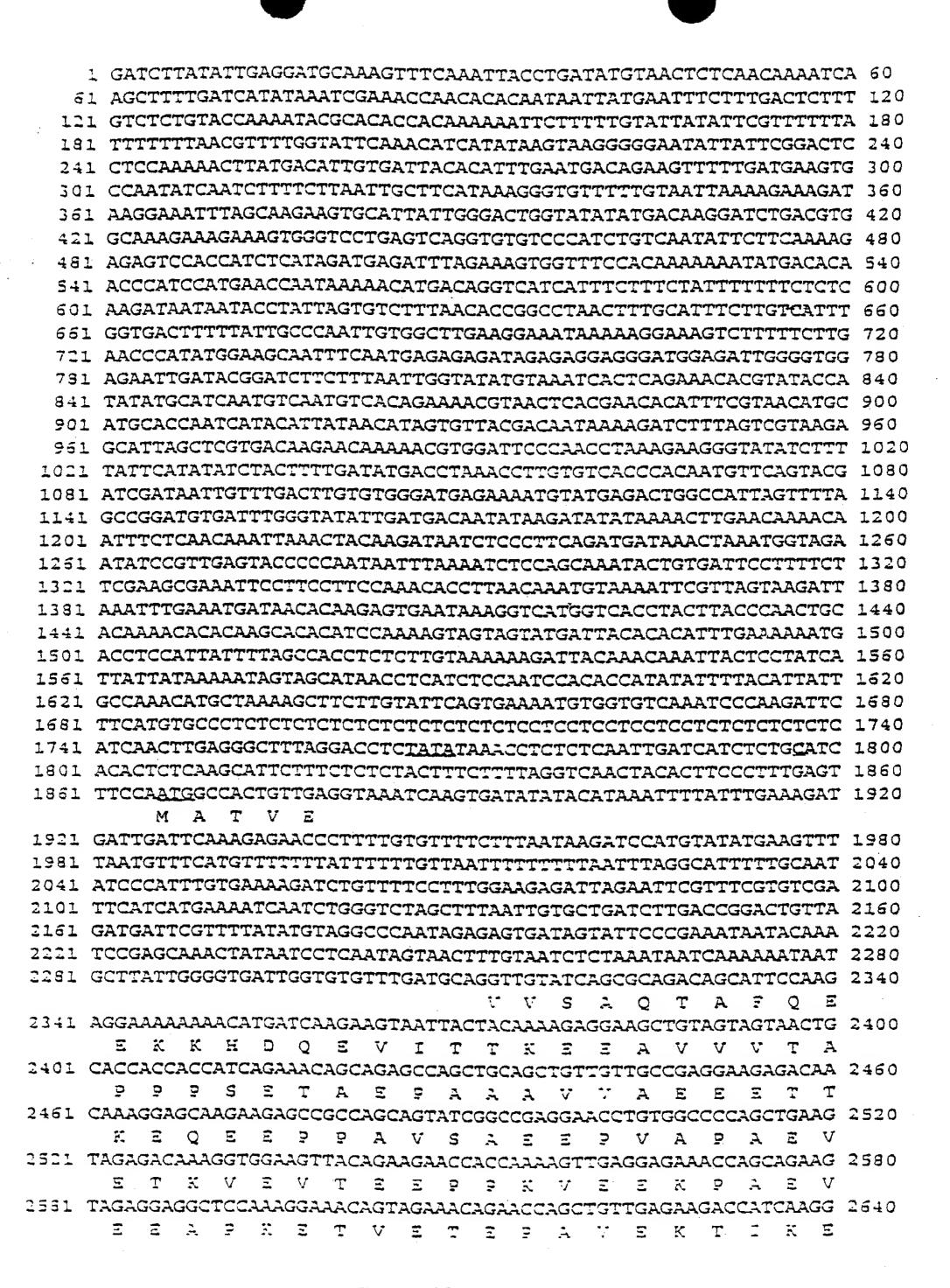


Figure 10 a

| 2641 | AGG. | AAA | CTC | STA | .GA(| GGA | CTC | TGT | CGT | GGC | ACC' | TGC | TCC | CGA | ACC | GGA | AGC | CGA | AGT | 'CCC | AA | 2700 |
|------|------|------|---------|------|------|------------|---------------|------|------------|------------------|--------------|------|------|------|-------|------|------|------|------|------|------------|------|
| | Ē | T | V | 7 | E | D | S | V | A | \mathbf{A}^{+} | P | A | Ď | E | P | E | A | E | V | P | K | |
| 2701 | AAG | AGA | AGO | TA | AT: | rgc' | TAC | TAC | TGA | AAC' | TAC | TGA | GGA. | AGA. | AGA | AAA | AGT | GGC | AGT | TGA | AG | 2760 |
| | Ε | | | _ | I | A | <u>ب</u> ښ | T | E | T | T | E | Ē | E | Ē | K | V | A | V | E | E | |
| 2761 | AAG' | TTG. | AAG | TG | AAI | AGT' | TGA | AAC. | AGA | GGA(| GGG | AGA | AGT' | TAC: | rga (| GGA | GAA | GAC | TGA | GTA | AA | 2820 |
| | V | _ | | _ | K | V | | T | Ε | E | G | E | V | T | E | E | ĸ | T | E | * | | |
| 2821 | ATA | AGT' | TGT | 'AC | AAC | CTA | TTT' | rat(| JCA | CGC | CTT | ATT | rrc: | rcai | TT | GGA. | AGT' | TTA | TAA | TGT | AG | 2880 |
| 2881 | TGG | GCT' | TTT | 'GG' | TAP | ATA: | rTT(| 3GG(| GT' | TTA | ATA | AGTO | GT: | TAA | GT | GG: | rta. | AGG | CTT' | TTT' | ГG | 2940 |
| 2941 | GAA: | rtt? | AGA | TA | TTI | GG | TA | AAG(| GCC' | TAC | rtg <i>i</i> | AAC | AAA | AÇA1 | CAG | AAA! | rtt(| GGC. | ACA | CAT | G G | 3000 |
| 3001 | GTA | AAA | GTC | AA | ACI | TT | GTT(| GAG | JAT | GTT: | rrca | rtgi | rtgo | GTTA | AA: | rgr | GTG: | rgc | CAA | GTA(| ЭT | 3060 |
| 3061 | AGA | ATG: | rgg | TG | GTI | GT | LATO | STA | AGT" | rcro | CAAC | TAC | GG? | TTT | TG | AGTO | CT | AGT | ATT | ATG | CT | 3120 |
| 3121 | TGAT | FTGT | rat | GT' | TGA | TAT | [GA] | CAA | rgg | GG1 | CATO | TTE | GCI | TTC | AA | CAA | AG? | rtt' | TTA | ATT: | ľT | 3180 |
| 3181 | ATAI | CAA! | ΓAΑ | GT(| 3TA | TT | TTT | TT | CAA | rato | CATI | CTI | TCF | TTC | TCI | CGC | ATO | CAA | CTA | CTGA | T | 3240 |
| 3241 | CATC | ٠ | بالمناب | GG | ממיז | GCT | רידי בי | GCC | 2 بالمات | ACCI | ACT | 'AGC | TAZ | TCG | AAC | GCG | AGO | CCC | | | | 3292 |

Figure 10b